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> Data Collected Through the Postsecondary Studies

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Data Collected Through Postsecondary Education Studies

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> Data Collected Through the Postsecondary Studies > Module Objectives

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Module Objectives

- Describe the data collected through the postsecondary education studies from:
 - Postsecondary institution data sources
 - Student interview data sources
 - Other administrative data sources
- Describe how the source data are used to create the derived files used by [QuickStats and PowerStats](#) and restricted-use micro-level data files used by licensed researchers.

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> Data Collected Through the Postsecondary Studies > Postsecondary Education Data Collections

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Postsecondary Education Data Collections

Institution-Level Data Collection

Institution characteristics (IPEDS data)

Student records (institutional and state aid)

Transcripts

Student Interview Data Collection

Other Administrative Data Collections Examples


Central Processing System (e.g., FAFSA)

NSLDS (Pell and loan files)

National Student Clearinghouse (enrollment)

ACT / SAT

- Three major data collections
 - Postsecondary institution data sources
 - Student interview data sources
 - Other administrative data sources
- NPSAS occurs in staged sampling periods requiring data collection across these collections and sources
- Postsecondary longitudinal studies (BPS and B&B) build on the NPSAS baseline collection and collect additional data from all three of these data sources at different times across the 'life-span' of a study member.

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> Data Collected Through the Postsecondary Studies > Institutional Data Collection Processes

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Institutional Data Collection Processes

- In NPSAS data collections, institutional data are gathered in two phases.
 - After institutional sampling, selected institutions are contacted and asked to provide student enrollment lists along with selected indicators (e.g., age, field of study, academic class level).
 - After student sampling, institutions are re-contacted and asked to provide additional, detailed information on sampled students, including enrollment histories, aid use, and academic characteristics.
- In longitudinal studies, additional data are gathered, including:
 - Transcripts
 - Updates to student record data in future BPS studies (e.g., later year financial aid awards)
- NCES works closely with sampled institutions to maximize institutional response.

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> Data Collected Through the Postsecondary Studies > Example of Institutional Data Collection Webpage

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Example of Institutional Data Collection Webpage

NPSAS

National Postsecondary Student Aid Study

OMB Clearance No.: 1850-0666 Exp. Date: 3/31/2010

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Text Your IPEDS UNITID: 888001

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Click on one of the links above to go to a different section.

Save button is at the bottom of this page.

Enrollment

Student Name TEST1, TESTNAME

Student ID 88800101

Level UG

Please click the Enrolled box and provide the other requested information for each term in which the student was enrolled in a course for credit at any time between July 1, 2007 and June 30, 2008. When entering the Credit Hours information, please include all credit hours the student has completed AND credit hours for which the student is currently enrolled. If a term does not appear below, add it by clicking "Add Term", providing the requested information, and clicking "Add this term".

[\[Help\]](#)

Term or Payment Period Name	Start Date	End Date	Enrolled?	Attendance Status	Credit Hours
Fall Test	08/15/2007	12/10/2007	Yes	Full Time	15
Spring 2008	02/15/2008	05/22/2008	Yes	Full Time	15
Summer 1	04/15/2008	06/15/2008	No		0
Summer 2	06/25/2008	08/10/2008	No		0

☒ I am completely finished with Item 1.

(If you need to make changes to existing terms or add new terms for this student, uncheck the box above.)

During the last term enrolled as entered above, Spring 2008 (2/15/2008 - 5/22/2008), in what type of degree program was this student enrolled? [\[Help\]](#)

Master's degree program


You will not be able to access the rest of the questions in this section until you answer this item.

During Spring 2008 (2/15/2008 - 5/22/2008), which of the following Master's degrees was the student working toward?

Pick one

During Spring 2008 (2/15/2008 - 5/22/2008), what was this student's class level? [\[Help\]](#)

Pick one

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> Data Collected Through the Postsecondary Studies > Student Interview Data Collection

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Student Interview Data Collection

- Four stages in student data collection process:
 - Verification of student contact information;
 - Initial contact via postal and electronic mail to encourage Web response;
 - Subsequent contacts include telephone calls to encourage Web response or an opportunity to complete questionnaire with trained telephone interviewer; and
 - Toward the end of data collection, remaining nonrespondents are sometimes asked to complete an abbreviated, rather than complete, interview.
- Respondents provided token of appreciation in recognition of the value of their time.
- Specific contacting procedures are designed to improve response among students who, if missing from the data, would negatively impact the quality of survey estimates (i.e., nonresponse bias).

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Example – B&B:08/09 Self-Administered Web Interview

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> Data Collected Through the Postsecondary Studies > Examples of Other Administrative Data

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Examples of Other Administrative Data

- Sample members are matched to the following datasets (if applicable):
 - ED Central Processing System (CPS) – FAFSA application data
 - National Student Loan Data System (NSLDS) – federal loan disbursement and repayment data
 - Pell Grant data
 - Testing Service Records (SAT/ACT) – pre-college aptitude test data
 - National Student Clearinghouse – undergraduate and graduate school enrollment patterns

Complete Listing of Administrative Data Sources

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> Data Collected Through the Postsecondary Studies > Study Members versus Study Respondents

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Study Members versus Study Respondents

- NCES postsecondary studies use a data-based definition of response that refers to study members.
- A study member is any student for whom the following data are available from any source, including institutional records, questionnaire responses, or other administrative provider:
 - Student type (e.g., undergraduate or graduate student)
 - Birth date or age
 - Gender, and
 - At least 8 of the following 15 variables:
 - Dependency status, marital status, any dependents, income, expected family contribution (EFC), degree program, class level, first-time beginner status, months enrolled, tuition, received financial aid, received non-federal aid, student budget, race, and parent education.

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> Data Collected Through the Postsecondary Studies > Postsecondary Education Data Collections by Study			
00:01:27			
Postsecondary Education Data Collections by Study			
	NPSAS	BPS	B&B
Institution-Level Data Collection			
Institution characteristics (IPEDS data)	x	x	x
Student records (institutional and state aid)	x	x*	
Transcripts		x	x
Student Interview Data Collection	x	x	x
Other Administrative Data Collections Examples			
Central Processing System (e.g., FAFSA)	x	x	x
NSLDS (Pell and loan files)	x	x	x
National Student Clearinghouse (enrollment)	x	x	x
ACT / SAT		x	x
*BPS:12 institutions may be asked to provide additional waves of institutional records.			

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> Data Collected Through the Postsecondary Studies > Handling and Aggregating Source Data for Analysis

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Handling and Aggregating Source Data for Analysis

- From all sources of data which have been gathered, a 'derived' variable file is created.
- In addition to potentially having multiple data sources, derived variables are well edited for errors and inconsistencies and typically have less missingness.
- Finally, where feasible, we impute for missing data. Imputation preserves cases by replacing missing data with a probable value based on other available information.
- For this reason (and many more), we suggest that restricted-use data licensees use variables from the derived file whenever possible.
- PowerStats reads from the derived file, which can be found at the top-level of the restricted-use file CDs (refer to the readme file on CD for exact location).
- In addition to the derived file, restricted-use data CDs contain the 'source' variable files from which the derived variables are ... derived. Again, we advise that licensees use source variables only when the derived file doesn't contain what is needed.



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> Data Collected Through the Postsecondary Studies > Example -- Derivation of Aid Application Status (FEDAPP & AIDAPP)

00:03:08

Example -- Derivation of Aid Application Status (FEDAPP & AIDAPP)

ID	In the Central Processing System (INCPS = 1)	Student Interview (Did you Apply?)	Total Federal Aid	Total Aid (All Sources)	Applied for Federal Aid (FEDAPP)	Applied for Any Aid (AIDAPP)
20251	1 (yes)	Yes	\$100	\$100		
20255	. (missing)	No	. (missing)	\$100		
20325	. (missing)	No	\$100	\$100		
20355	1 (yes)	Yes	. (missing)	. (missing)		
20440	. (missing)	Yes	. (missing)	. (missing)		
21202	. (missing)	. (missing)	. (missing)	. (missing)		
21218	. (missing)	. (missing)	\$100	\$150		
21226	1 (yes)	Yes	\$100	\$200		
25256	. (missing)	No	. (missing)	. (missing)		

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> Data Collected Through the Postsecondary Studies > Deriving 'FEDAPP' and 'AIDAPP'

00:00:33

Deriving 'FEDAPP' and 'AIDAPP'

STEP 1: If the student applied for Federal Aid, a record is created in the Department of Education's Central Processing System. If a record is present, FEDAPP is set to "Yes."

ID	In the Central Processing System (INCPS = 1)	Student Interview (Did you Apply?)	Total Federal Aid	Total Aid (All Sources)	Applied for Federal Aid (FEDAPP)	Applied for Any Aid (AIDAPP)
20251	1 (yes)	Yes	\$100	\$100	YES	
20255	. (missing)	No	. (missing)	\$100		
20325	. (missing)	No	\$100	\$100		
20355	1 (yes)	Yes	. (missing)	. (missing)	YES	
20440	. (missing)	Yes	. (missing)	. (missing)		
21202	. (missing)	. (missing)	. (missing)	. (missing)		
21218	. (missing)	. (missing)	\$100	\$150		
21226	1 (yes)	Yes	\$100	\$200	YES	
25256	. (missing)	No	. (missing)	. (missing)		

> Data Collected Through the Postsecondary Studies > Deriving 'FEDAPP' and 'AIDAPP' (Continued)

00:00:27

Deriving 'FEDAPP' and 'AIDAPP' (Continued)

STEP 2: If the student received any federal aid, FEDAPP is set to "Yes" even if no CPS record is present.

ID	In the Central Processing System (INCPS = 1)	Student Interview (Did you Apply?)	Total Federal Aid	Total Aid (All Sources)	Applied for Federal Aid (FEDAPP)	Applied for Any Aid (AIDAPP)
20251	1 (yes)	Yes	\$100	\$100	YES	
20255	. (missing)	No	. (missing)	\$100		
20325	. (missing)	No	\$100	\$100 →	YES	
20355	1 (yes)	Yes	. (missing)	. (missing)	YES	
20440	. (missing)	Yes	. (missing)	. (missing)		
21202	. (missing)	. (missing)	. (missing)	. (missing)		
21218	. (missing)	. (missing)	\$100	\$150 →	YES	
21226	1 (yes)	Yes	\$100	\$200	YES	
25256	. (missing)	No	. (missing)	. (missing)		

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> Data Collected Through the Postsecondary Studies > Deriving 'FEDAPP' and 'AIDAPP' (Continued)

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Deriving 'FEDAPP' and 'AIDAPP' (Continued)

STEP 3: Otherwise, the FEDAPP is set to "No".

ID	In the Central Processing System (INCPS = 1)	Student Interview (Did you Apply?)	Total Federal Aid	Total Aid (All Sources)	Applied for Federal Aid (FEDAPP)	Applied for Any Aid (AIDAPP)
20251	1 (yes)	Yes	\$100	\$100	YES	
20255	. (missing)	No	. (missing)	\$100	No	
20325	. (missing)	No	\$100	\$100	YES	
20355	1 (yes)	Yes	. (missing)	. (missing)	YES	
20440	. (missing)	Yes	. (missing)	. (missing)	No	
21202	. (missing)	. (missing)	. (missing)	. (missing)		
21218	. (missing)	. (missing)	\$100	\$150	YES	
21226	1 (yes)	Yes	\$100	\$200	YES	
25256	. (missing)	No	. (missing)	. (missing)	No	

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> Data Collected Through the Postsecondary Studies > Deriving 'FEDAPP' and 'AIDAPP' (Continued)

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Deriving 'FEDAPP' and 'AIDAPP' (Continued)

STEP 4: If FEDAPP is "Yes", then AIDAPP is set to "Yes".

ID	In the Central Processing System (INCPS = 1)	Student Interview (Did you Apply?)	Total Federal Aid	Total Aid (All Sources)	Applied for Federal Aid (FEDAPP)	Applied for Any Aid (AIDAPP)
20251	1 (yes)	Yes	\$100	\$100	YES →	YES
20255	. (missing)	No	. (missing)	\$100	No	
20325	. (missing)	No	\$100	\$100	YES →	YES
20355	1 (yes)	Yes	. (missing)	. (missing)	YES →	YES
20440	. (missing)	Yes	. (missing)	. (missing)	No	
21202	. (missing)	. (missing)	. (missing)	. (missing)		
21218	. (missing)	. (missing)	\$100	\$150	YES →	YES
21226	1 (yes)	Yes	\$100	\$200	YES →	YES
25256	. (missing)	No	. (missing)	. (missing)	No	

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> Data Collected Through the Postsecondary Studies > Deriving 'FEDAPP' and 'AIDAPP' (Continued)

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Deriving 'FEDAPP' and 'AIDAPP' (Continued)

STEP 5: If a student received any aid whatsoever, then AIDAPP is set to "Yes".

ID	In the Central Processing System (INCPS = 1)	Student Interview (Did you Apply?)	Total Federal Aid	Total Aid (All Sources)	Applied for Federal Aid (FEDAPP)	Applied for Any Aid (AIDAPP)
20251	1 (yes)	Yes	\$100	\$100	YES	YES
20255	. (missing)	No	. (missing)	\$100	No	YES
20325	. (missing)	No	\$100	\$100	YES	YES
20355	1 (yes)	Yes	. (missing)	. (missing)	YES	YES
20440	. (missing)	Yes	. (missing)	. (missing)	No	
21202	. (missing)	. (missing)	. (missing)	. (missing)		
21218	. (missing)	. (missing)	\$100	\$150	YES	YES
21226	1 (yes)	Yes	\$100	\$200	YES	YES
25256	. (missing)	No	. (missing)	. (missing)	No	

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> Data Collected Through the Postsecondary Studies > Deriving 'FEDAPP' and 'AIDAPP' (Continued)

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Deriving 'FEDAPP' and 'AIDAPP' (Continued)

STEP 6: If a student indicated in the interview that they applied for aid, then AIDAPP is set to "Yes".

ID	In the Central Processing System (INCPS = 1)	Student Interview (Did you Apply?)	Total Federal Aid	Total Aid (All Sources)	Applied for Federal Aid (FEDAPP)	Applied for Any Aid (AIDAPP)
20251	1 (yes)	Yes	\$100	\$100	YES	YES
20255	. (missing)	No	. (missing)	\$100	No	YES
20325	. (missing)	No	\$100	\$100	YES	YES
20355	1 (yes)	Yes	. (missing)	. (missing)	YES	YES
20440	. (missing)	YES	. (missing)	. (missing)	No	YES
21202	. (missing)	. (missing)	. (missing)	. (missing)		
21218	. (missing)	. (missing)	\$100	\$150	YES	YES
21226	1 (yes)	Yes	\$100	\$200	YES	YES
25256	. (missing)	No	. (missing)	. (missing)	No	

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> Data Collected Through the Postsecondary Studies > Deriving 'FEDAPP' and 'AIDAPP' (Continued)

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Deriving 'FEDAPP' and 'AIDAPP' (Continued)

STEP 7: If there is no indication that a student applied for aid, then AIDAPP is set to "No".

ID	In the Central Processing System (INCPS = 1)	Student Interview (Did you Apply?)	Total Federal Aid	Total Aid (All Sources)	Applied for Federal Aid (FEDAPP)	Applied for Any Aid (AIDAPP)
20251	1 (yes)	Yes	\$100	\$100	YES	YES
20255	. (missing)	No	. (missing)	\$100	No	YES
20325	. (missing)	No	\$100	\$100	YES	YES
20355	1 (yes)	Yes	. (missing)	. (missing)	YES	YES
20440	. (missing)	Yes	. (missing)	. (missing)	No	Yes
21202	. (missing)	. (missing)	. (missing)	. (missing)		
21218	. (missing)	. (missing)	\$100	\$150	YES	YES
21226	1 (yes)	Yes	\$100	\$200	YES	YES
25256	. (missing)	No	. (missing)	. (missing)	No	No



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> Data Collected Through the Postsecondary Studies > Deriving 'FEDAPP' and 'AIDAPP' (Continued)

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Deriving 'FEDAPP' and 'AIDAPP' (Continued)

STEP 8: Cases that have missing data are statistically imputed.

ID	In the Central Processing System (INCPS = 1)	Student Interview (Did you Apply?)	Total Federal Aid	Total Aid (All Sources)	Applied for Federal Aid (FEDAPP)	Applied for Any Aid (AIDAPP)
20251	1 (yes)	Yes	\$100	\$100	YES	YES
20255	. (missing)	No	. (missing)	\$100	No	YES
20325	. (missing)	No	\$100	\$100	YES	YES
20355	1 (yes)	Yes	. (missing)	. (missing)	YES	YES
20440	. (missing)	Yes	. (missing)	. (missing)	No	Yes
21202	. (missing)	. (missing)	. (missing)	. (missing)	{Impute}	{Impute}
21218	. (missing)	. (missing)	\$100	\$150	YES	YES
21226	1 (yes)	Yes	\$100	\$200	YES	YES
25256	. (missing)	No	. (missing)	. (missing)	No	No

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> Data Collected Through the Postsecondary Studies > More Information on Imputation Procedures

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More Information on Imputation Procedures

- The imputation procedures involves a four-step process:
 - Missing variables are logically imputed using other related data from one of the sources
 - Criteria used to match variables into imputation classes to stratify the dataset are identified
 - The weighted sequential hot deck process is implemented
 - A cyclic n-partition hot deck process is implemented

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> Data Collected Through the Postsecondary Studies > Example – Derived Variable 00:00:41

Example – Derived Variable

National Center for Education Statistics: PowerStats

Study Name: *National Postsecondary Student Aid Study; 2008 Undergraduates*

VARIABLE INFORMATION

Name: FEDAPP
Label: Applied for federal aid
Description: Indicates whether the student applied for federal financial aid for the 2007-2008 academic year.
Descriptive Statistics:

Value	Percentage	Value label
0	41.8	No
1	58.2	Yes

Weight used in frequency: (WTA000)

Notes: This variable was set to "yes" if the student had a record of a federal financial aid application for 2007-2008 (INCPS=1) or the student received any federal financial aid (TFEDAID>0). This variable was set to "no" if the student record had a valid social security number (SSNFLAG=1) but it did not match to the federal aid application file (INCPS=0). Note: SSNFLAG and N8APPAID are raw data variables from CPS and the student interview respectively that are not in the DAS. Derived from: INCPS TFEDAID SSNFLAG.

Some of the variables listed are source variables and may not be available in PowerStats. To find a variable, type the Name (example, ADMCON4) in the Find Variables field in PowerStats.

Code: SAS code

```
IF INCPS=1 OR TFEDAID GT 0 THEN FEDAPP=1; ELSE IF SSNFLAG=1 THEN FEDAPP=0;
```


Some of the variables listed are source variables and may not be available in PowerStats. To find a variable, type the Name (example, ADMCON4) in the Find Variables field in PowerStats.

Applies to: All respondents.

Both PowerStats and the restricted-use file codebooks include documentation of how the derived variables were created.

This includes the following pieces of information:

- Programming notes
- Which study members have information contained within each variable
- Which data sources were used in the creation of each variable

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> Data Collected Through the Postsecondary Studies > Summary

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Module Summary

Now that you have completed this module, you should be able to:

- Describe the data collected through the postsecondary education studies from:
 - Postsecondary institution data sources
 - Student interview data sources
 - Other administrative data sources
- Describe how the source data are used to create the derived files used by PowerStats and restricted-use micro-level data files used by licensed researchers.

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> Data Collected Through the Postsecondary Studies > Resources

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Module Resources

Resources

- [Search for the study-specific methodological report\(s\) of interest](#)
- Reports folder found on the restricted-use file CDs
- [Large-Scale Imputation for Complex Surveys](#) (Marker, Judkins, & Winglee, 2002)